CONSTRUCTION PRODUCTS DIVISION

W. R. GRACE & CO., 62 WHITTEMORE AVENUE, CAMBRIDGE, MASSACHUSETTS 02140 617-876-1400

July 6, 1971

Mr. Robert L. Lines, Supervisor
Air Pollution Control
Department of Inspection
City of Minneapolis
220 Grain Exchange
Minneapolis, Minnesota 55415

REFERENCE: W. R. Grace & Co.
Construction Products Division
1720 Madison N.E.
Minneapolis, Minnesota 55413

Dear Mr. Lines:

As per my letter of May 4, 1971, to Mr. Robert J. Lindall, Special Assistant Attorney General, State of Minnesota, W. R. Grace & Co. stated that by September 1, 1971 a fabric type dust collector (bag house) would be installed on the perlite operation at referenced plant. This control device would place this source of emission in full compliance of the Pollution Control Agency rules and regulations. In order to meet the September 1 deadline, the bag house was ordered May 4, 1971 and all other associated equipment, such as duct work, air lock, screw conveyor and so forth were ordered on June 29, 1971.

Since the control device and associated equipment has been ordered, I would appreciate prior approval from the City of Minneapolis based on the enclosed preliminary drawings and following equipment specifications:

1. Bag house

This is a Model C-4-18 collector, manufactured by The Perlite Corporation of Chester, Pennsylvania. The unit has 2370 square feet of cloth area and rated at 6000 ACFM. The bag house is fabricated in four compartments with a separate 1500 ACFM fan for each compartment. Bag cleaning is based on a pressure differential principle where each fan motor is tied in electrically to a variable sequence timer.

2. Duct work

Furnace hot gases and fines from the product cyclone will be tied together and discharged into the bag house inlet plenum. This duct work will be made of eleven gauge material and is being designed and fabricated by The Perlite Corporation. Vent ducting from the Sweco screen and bagging hoppers are not shown on the preliminary drawings but this duct work will be designed by W. R. Grace & Co. and fabricated in our shop or a sheet metal shop in Minneapolis. This duct work will tie into the bag house inlet plenum.

3. Air lock

There will be a 10" rotary air lock located below the bag house hopper. This unit is specially designed for perlite and is manufactured by The Perlite Corporation.

4. Screw conveyor

Waste perlite dust collected in the bag house will be conveyed from the air lock discharge to a waste container located adjacent to the bagging hopper on the second floor of the manufacturing building. This will be a 9" diameter by 10' long conveyor.

5. Structural steel

Structural steel to support the bag house and associated equipment will be designed and fabricated by The Perlite Corporation. Drawings of this structural steel will be submitted to the Department of Inspections for approval prior to erection.

If there are any additional drawings or specifications required before issuing approval to construct, please do not hesitate to contact me.

Very truly yours,

FREDERICK W. EATON
Project Engineer
Pollution Control

FWE:jrd
Enclosures (3)

cc: Mr. O. M. Favorito, Counsel
W. R. Grace & Co.